Unit Operations Center

Program Manager: Col Paul Ortiz

Project Team Leader: Mr. Kevin Holt

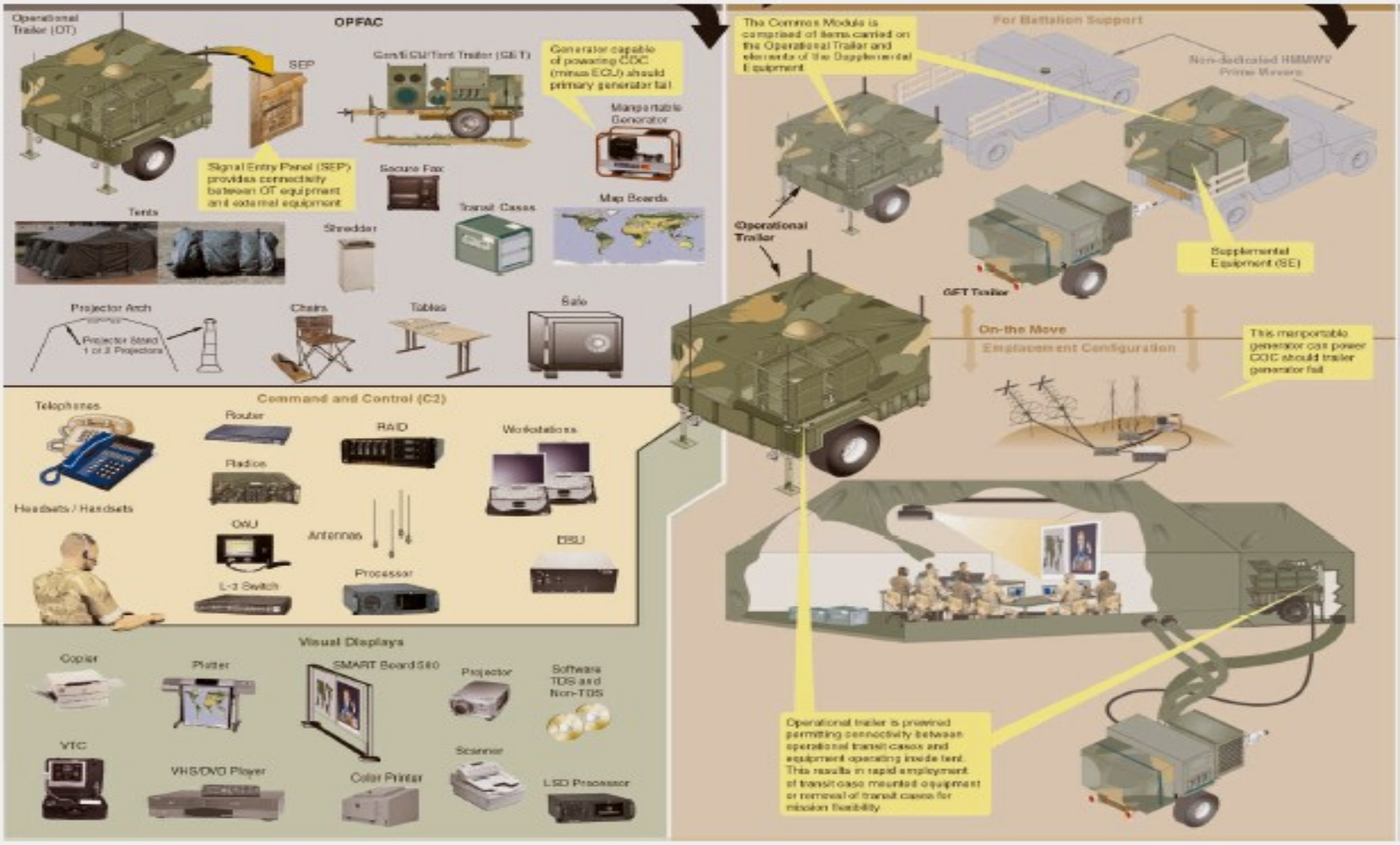
Requirements Officer: Major Faust
faustad@mccdc.usmc.mil
Advocate Rep: Lt Col Wheeler
wheelerme@hqmc.usmc.mil

Outline

- UOC Components
- UOC Evolution
- Accomplishments
- Challenges
- Summary

8th Marines (Circa 1998)

UOC Components



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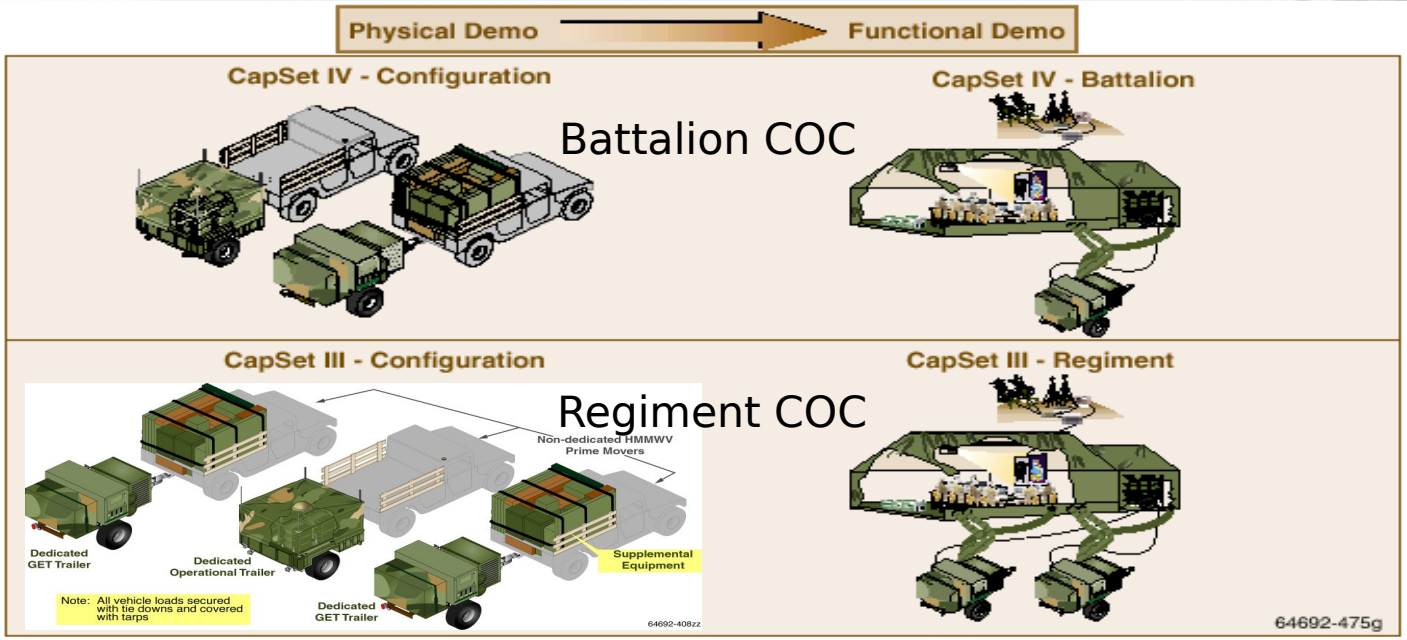
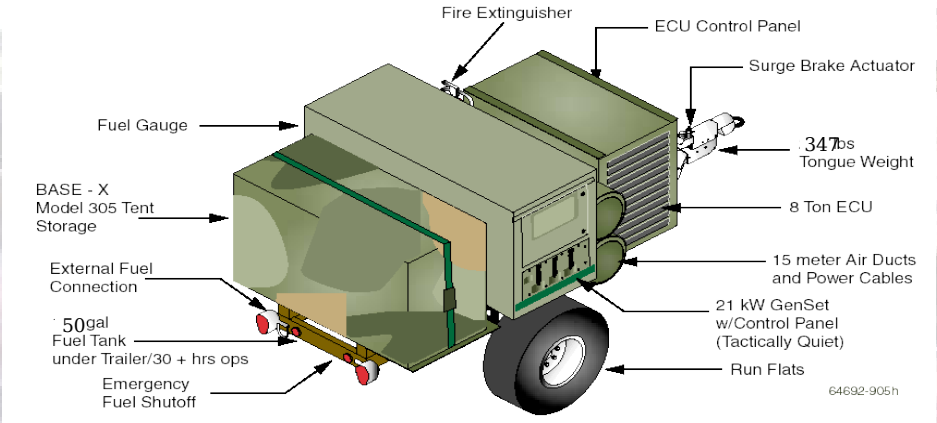
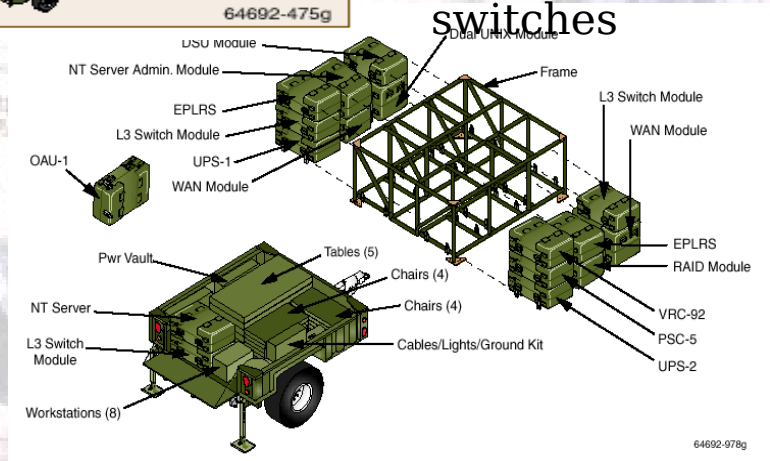
The UOC Solution is Modular/Scaleable



Every COC Will Be Fielded With:

(1)Integrated & Dedicated Power
(2)ECU
(3)Tents
(4)Dedicated suite of TDSs
(5)Routers and switches





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UOC Evolving…

Engineering Development Model

- Core Production Representative System
- Modified GET

Low Rate Initial Production I

- GCCS 3.0.6/GCCS 3.6
- Redesigned GET
- Redesigned Ops (added subsystems, cover, power distribution, etc)
- Reinforced GET/Ops
- Human factor upgrades (chairs, lights, tables)
- Dual Operator Access Units (removable flash card)
- COTS enhanced
- Digital Switching Unit increased to 2.4GHz processor

Low Rate Initial Production II

- GCCS 4.0
- Upgraded Laptops/Servers
- Internet Protocol V6 Capable
- Modifications to GET/Ops Trailers
- Enhanced redundancy
- COTS enhanced

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FY03 Accomplishments

- Systems Demonstration - 20 Nov 02 to 25 Mar 03
- Requirement changes based on user feedback – 8 Feb 03
- Pilot Production (4 systems)/Leading Items Decision – 5 Mar 03
- MS C/LRIP (11 systems) Decision - 25 Apr 03
- LRIP Design Production Readiness Review – 12 May 03
- Production Representative Test & Evaluation I - April 21–Sept 03
- ***1st production delivery – Aug 2003 – 4 total systems provided***

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FY04 Accomplishments

- LRIP deliveries – Oct–Dec 03 (3 per month)
- ***Limited Field User Eval (6th Marines) – Oct 03–Feb 04***
- Aberdeen Test Center Environmental Testing – Nov 03
- EDM CapSet III provided to MCWL – Nov 03
- LRIP II decision – Dec - Feb 03
- LRIP II Design Production Readiness Review – Jan 04
- ***Field User Eval (10th Marines) – Jan–Apr 04***
- Operational Test & Eval (OT&E) – Apr–Jun 04
- System-of-System Test (GCCS 3.6 – 4.X transition) – Apr/Jul 04
- LRIP II deliveries – Jul 04
- Initial Operational Capability – Aug 04
- Follow-on OT&E – (GCCS 4.X) – Sep 04
- Full Rate Production decision – Sep 04

6th Marines Input

- **Tactical Data Software** – Certification for use
  - UOC is re-hosting software applications
  - Program decision not to seek certification for that SW increment
  - Certification for current version due in Jan 04 on plan
- **Digital Switching Unit** – Critical, unproven technology
  - UOC is developing redundancy into the system
  - Working to capture data on training and reliability
- **Operations Trailer** – cabling is complex
  - UOC is developing cable panels and re-routing cabling
  - Trailer will evolve with capability
- **CF-28 Laptops** – performance is poor
  - With GCCS 4.X laptops must be upgraded
  - Additional testing on utilization planned with 10th Marines

Program Challenges

- Ensuring **funding** is allocated appropriately across the FYDP to adequately address users needs
  - ✓ Core capability & tech insert maturity
- **Pacing program** at appropriate rate to address user, acquisition, technology, and management needs
  - ✓ Very fluid, fast-paced program
- Providing a system that **meets/exceeds the requirements** without providing a technology challenge
  - ✓ **Manage complexity**
- Providing a Marine Corps solution

POM Approach

- UOC developing an action plan to support POM efforts for the program
- UOC will meet with MEF POM representatives to ensure information flow on approach and solution
- UOC would like to meet with others to discuss the way ahead
- Challenges ensures this program is very dynamic

Summary

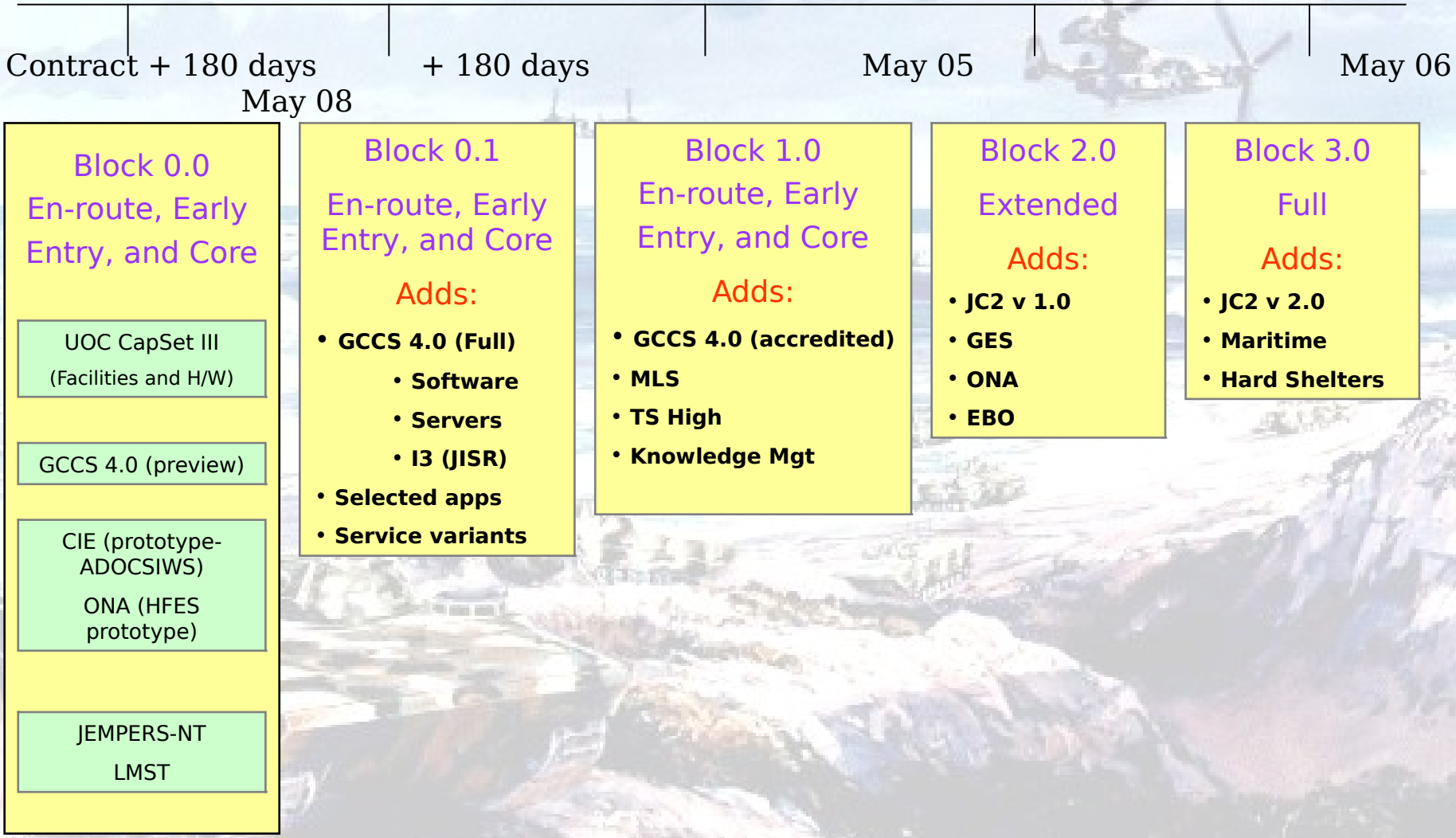
- UOC standardizes ground Command and Control
- Active Fleet **participation essential** for success
- UOC Technology insertion supports the Transformation Vision for the Future

"**Transformation is not just about some massive, major breakthrough** … It is about trying to get right the numerous small, continuous small steps that sustain change. But transformation is also about **making many medium jumps** through constantly exploring and expanding the boundaries of doctrine, systems, technology and the way we do business."

- *Undersecretary of the Navy, S. Livingstone, 6 November 2002*

Back Up Slides

DJC2 Building Block Approach



Source: General Dynamics presentation to MARCORSYSCOM da

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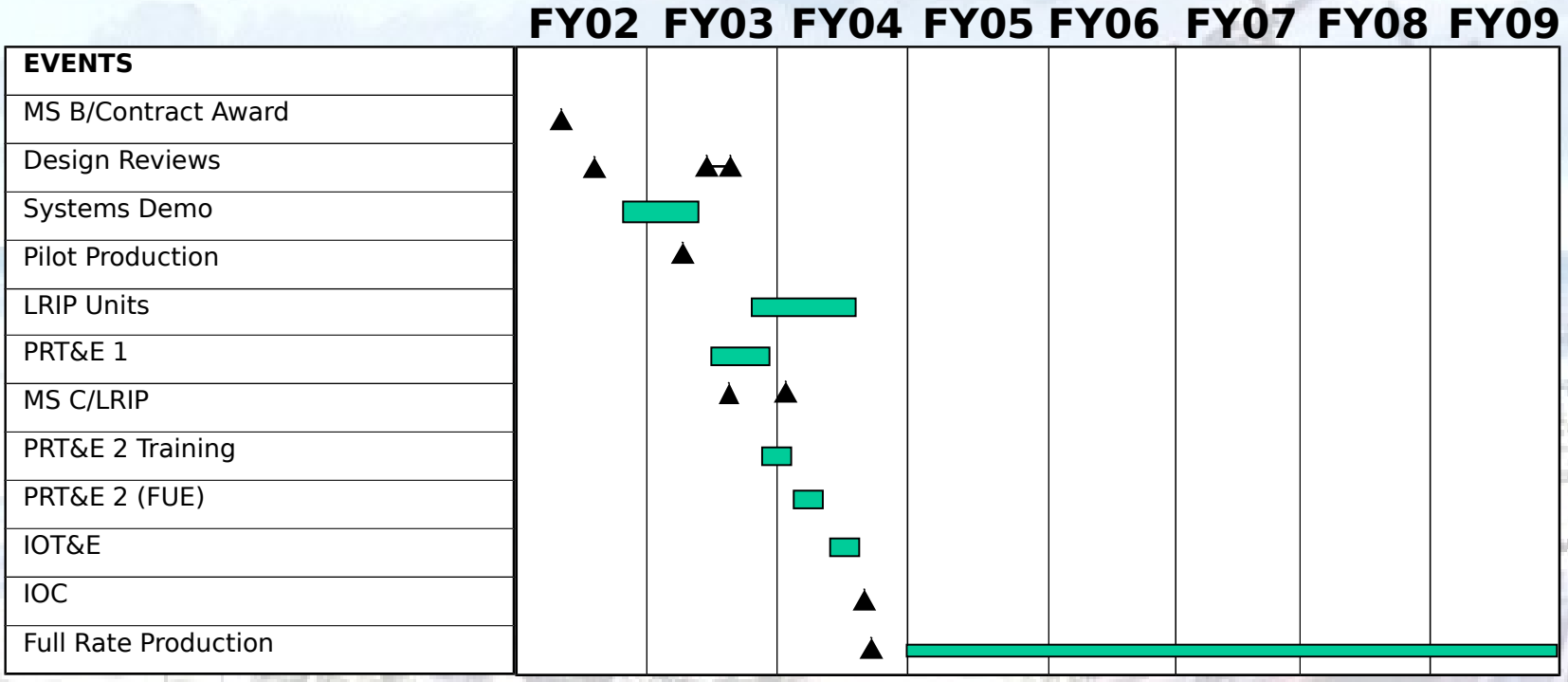
UOC Fielding FY03-FY05 - DRAFT

T/E		CAP SET III Units	CAP SET IV Units	
	FY03			
N1121	GCE INF Rgt Hqtrs, 2nd MARDIV	4		**6th Marines**
N1172	GCE INF Bn, 2nd MARDIV		4	
N2209	GCE Arty Bn, 2nd MARDIV		2	
7720-1	SE MCCES		1	
7441-1	SE MCSC	1		
		5	**7**	
	FY04			
N1121	GCE INF Bn Hqtrs, 2nd MARDIV	2		
N1172	GCE Arty Bn, 2nd MARDIV		10	
N1021	GCE, CE 2nd MARDIV	1		
7403	SE TECOM	1		
		4	**10**	Total Units FY04
	FY05			
N1021	GCE, CE 2nd MARDIV	1		
N2201	GCE Atry Regt, 2nd MARDIV	1		
N2209	GCE Arty Bn, 2nd MARDIV		6	
N1761	GCE, LAV 2nd LAR Bn, 2nd MARDIV		2	
N1621	GCE AAV, 2nd AAV Bn, 2nd MARDIV		1	
N1321	GCE ENGR 2nd Combat Engr Bn, 2nd MARDIV		2	
N1421	GCE Inf, 2nd RECON Bn, 2nd MARDIV		2	
N1541	GCE TANK, 2nd Tank Bn, 2nd MARDIV		2	
7720-1	SE MCCES		1	
7441-1	SE MCSC		1	
		2	**18**	Total Units FY05

UOC Macro Schedule



Appropriation ($M)	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09
R&D	11.1	8.6	9.2	14.3	15.8	23.0	10.8	6.3
PMC		21.6	29.2	36.0	41.3	124.7	151.9	147.5
O&M		1.1	2.0	3.2	4.0	3.4	8.3	16.4
Totals	11.1	31.3	40.4	53.5	61.1	151.1	171.0	170.2

UOC APPROACH
Planned Spiral Approach

EFFORT	FY04	FY05	FY06	FY07	FY08
Wireless LAN		◆			
Wireless LAN to Ant Hill			◆		
TDS S/W Config Mngmt	◆				
Wireless Headsets	◆				
Advanced Visualization			◆	◆	
TDS Interoperability Arch		◆			
Advanced Training and Sim		◆			
VoIP OTM to CS II			◆		
Log Training, Msn Plan, & Reheas			◆		
05-08 Demos			◆	◆	◆
Ops Trailer Optimization				◆	
CapSet II Analysis	◆				
CapSet II Demo/EDM			◆		
CS II Deployment				◆	
CS I Analysis			◆		
CS I Demo/EDM				◆	
CS I Deploy					◆
DMR & JTRS Insertion				◆	
GCCS 4.x	◆				
GCCS 4.x Msn Planning			◆		
GiG Enterprise Services		◆	◆		
Joint Command & Control				◆	◆